

**ISO SC4/WG10 STEP Modularization**  
**PWI Status Report**

**Bordeaux WG10 Plenary**

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**Agenda**

- **Accomplishments since Melbourne**
- **Project deliverables status update**

## **Accomplishments Since Melbourne**

- **Supporting nominated modules teams**
  - **Shape appearance and layers suite of nine modules passed their DTS ballot!**
    - Reviewed all issues with project leader - several were referred to WG10
  - **Minimal support provided to PDM/EACM modules teams**

## **Accomplishments Since Melbourne(2)**

- **STEP Modularization Strategy**
  - **Revision to STEP/SC4 Industrial Data Framework delivered**
  - **NIST Modules Repository meetings/calls**
  - **May workshop in London**
    - First draft of Sample Modular AP
    - First draft of “modularized AIC”
    - Harmonization recommendation
  - **Continued EXPRESS/XML participation in support of modules repository/catalogue**
    - participated in P28 London workshop

## **Project Plan Status**

**As of September 19, 1999**

## **Status of Deliverables(1)**

- **AM Development Guidelines**
  - No change since Lillehammer
  - Some updates based on DTS should be made
- **AM Validation Guidelines**
  - Initial IDEF activity model developed September 1998
- **AM/AP Integration/Harmonization Guidelines**
  - Now “Application Module Development Points within the Application Protocol Development Process”
- **AM Development Recommended Practices**
  - New document starting from content in Framework

## **Status of Deliverables(2)**

- **Guidelines for the content of application protocols using application modules**
  - No update
- **Overview Paper and Presentation**
  - Papers and presentations available
  - \*\*\* Half day overview in Bordeaux!
- **Framework for AP/AM Categorization**
  - SC4 Industrial Data Framework
    - Published revision for review/overview in Bordeaux
  - New “Recommended Practices for Modules Developers”
    - No first draft yet
- **At least 2 example AM suites from different industries**
  - PDES, Inc. PDM planning ballot this year
  - EACM has adopted modular approach

## **Status of Deliverables(3)**

- **Example AP using AM**
  - \*\*\* Small “parts catalog” AP and “big module” created at May workshop in London
  - \*\*\* It uses 15 of the PDM modules
- **AM Catalogue example/demonstrator**
  - Still separate demos of repository, catalogue, UoF library
- **Proposal for SC4 support processes**
  - Technical Specification ballot content/process agreed
  - “Foundation modules” belong to WG12, more application oriented belong to WG3 or JWG9
  - \*\*\* Recommendation for Harmonization Team developed at May workshop in London

## **Status of Deliverables(4)**

- **Draft Part 1 amendment**
  - No owner identified
- **Impact paper Integrated and Common Resources**
  - First draft on team site
- **Impact paper Implementation Methods**
  - First draft on team site
  - if EXPRESS amendment is approved, we need to amend these
  - Part 21 Edition 2 DIS out for ballot
- **Impact paper EXPRESS-X**
  - First draft on team site
- **Impact paper EXPRESS-2**
  - EXPRESS modularization amendment DIS technically ready

## **Status of Deliverables(5)**

- **Impact paper WG10 Data Architecture PWI**
  - brainstorming at London workshop
- **Impact paper on Vendors**
  - first draft on team site
- **Impact paper on Users**
  - First draft on team site

## **PWI Plans(1)**

- **Address issues from Sample AP review**
- **Address issues from Harmonization team, process and infrastructure proposals**
- **First draft of remaining impact papers**
- **Supporting NIST Modules Repository**
- **First draft of Guidelines for the Content of Application Extensions and extended APs**
- **Complete EXPRESS amendment**
  - **Minor P21/P22 updates based on EXPRESS amendment for modularization need to be completed as well**

## **PWI Plans(2)**

- **Probably need another “final” STEP Modularization workshop after Bordeaux**
- **Probably need a workshop supporting modularization teams**
  - **SC4 wide? Specific to PS? PDM? Others?**
  - **Looking at a PDM and AP210 workshop in September with Data Integration Architecture PWI**
- **Goal of completion by Bordeaux not met**
  - **Need to determine balloted documents vs. supporting documents and prepare ballots**
  - **Now hoping to complete Charleston ISO**

## **Draft Recommendation from London** **Workshop**

- **The following recommendation was drafted: this will be discussed with WG10, WG3 and WG12 at Bordeaux, with the intent of submitting a Last Day resolution for consideration by SC4.**
- **WG10 recommends that a new team be created under WG10 (expected to be moved later to another WG) called the "STEP Modules Harmonization Team" with the following responsibilities:**
  - **identify commonality across existing and proposed STEP APs, based on industry requirements**
  - **facilitate the exploitation of commonality through the development and use of modules**
  - **support the development and standardization of APs, modules and IRs by teams working in WG3, JWG9, and WG12**

## **Draft Recommendation from London** **Workshop(2)**

- **The STEP Modules Harmonization team will perform the following tasks:**
  - **facilitate harmonization workshops (typically 2-4 per year);**
  - **build and maintain knowledge of the full scope of AP development within SC4 (i.e., "keep the big picture")**
  - **create and maintain tools such as a catalogue of modules (covering those in development as well as published modules), usage by APs and other modules, UOF repository, module repository, etc.**
  - **maintain an issues log for development and use of modules, and work with other teams to resolve issues**
  - **report to SC4 on the level of harmonization achieved within and between specific module suites as requested by module/AP development teams, to act as the arbitrator in cases of dispute**

## **Draft Recommendation from London Workshop(3)**

- **WG10 recommends that SC4 request nominations to this team from P-members and A-liaisons, to play the following roles:**
  - Team leader
  - industry/application/domain expert
  - information requirements analysis expert
  - interpretation/interoperability expert
  - harmonization infrastructure developer

## **Sample Modular AP**

- **Scope is:**
  - **Product Types**
    - Products that are parts and assemblies
  - **Product Data**
    - Product definition views data pertaining to the completed design phase of a product's development;
    - Data that identify the supplier of either the product or the design;
    - The identification of an alternative name or label for a part or assembly;
    - The identification of the security classification of a single part or a part when it is a component in an assembly.



## Activity Model

